

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GSM850	128	5	33.81	31.96	38.45	PASS
GSM850	190	5	34.10	32.25	38.45	PASS
GSM850	251	5	33.78	31.93	38.45	PASS
GSM1900	512	0	30.24	31.84	33.00	PASS
GSM1900	661	0	30.65	32.25	33.00	PASS
GSM1900	810	0	30.53	32.13	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.65	31.8	38.45	PASS
GPRS850	128	5	2	31.84	29.99	38.45	PASS
GPRS850	128	5	3	30.31	28.46	38.45	PASS
GPRS850	128	5	4	28.63	26.78	38.45	PASS
GPRS850	190	5	1	33.92	32.07	38.45	PASS
GPRS850	190	5	2	32.09	30.24	38.45	PASS
GPRS850	190	5	3	30.56	28.71	38.45	PASS
GPRS850	190	5	4	28.86	27.01	38.45	PASS
GPRS850	251	5	1	33.60	31.75	38.45	PASS
GPRS850	251	5	2	31.93	30.08	38.45	PASS
GPRS850	251	5	3	30.43	28.58	38.45	PASS
GPRS850	251	5	4	28.72	26.87	38.45	PASS
GPRS1900	512	0	1	30.70	32.3	33.00	PASS
GPRS1900	512	0	2	28.56	30.16	33.00	PASS
GPRS1900	512	0	3	27.24	28.84	33.00	PASS
GPRS1900	512	0	4	25.49	27.09	33.00	PASS
GPRS1900	661	0	1	30.81	32.41	33.00	PASS
GPRS1900	661	0	2	28.83	30.43	33.00	PASS
GPRS1900	661	0	3	27.48	29.08	33.00	PASS
GPRS1900	661	0	4	25.72	27.32	33.00	PASS
GPRS1900	810	0	1	31.15	32.75	33.00	PASS
GPRS1900	810	0	2	29.29	30.89	33.00	PASS
GPRS1900	810	0	3	27.97	29.57	33.00	PASS
GPRS1900	810	0	4	26.18	27.78	33.00	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For GSM850)

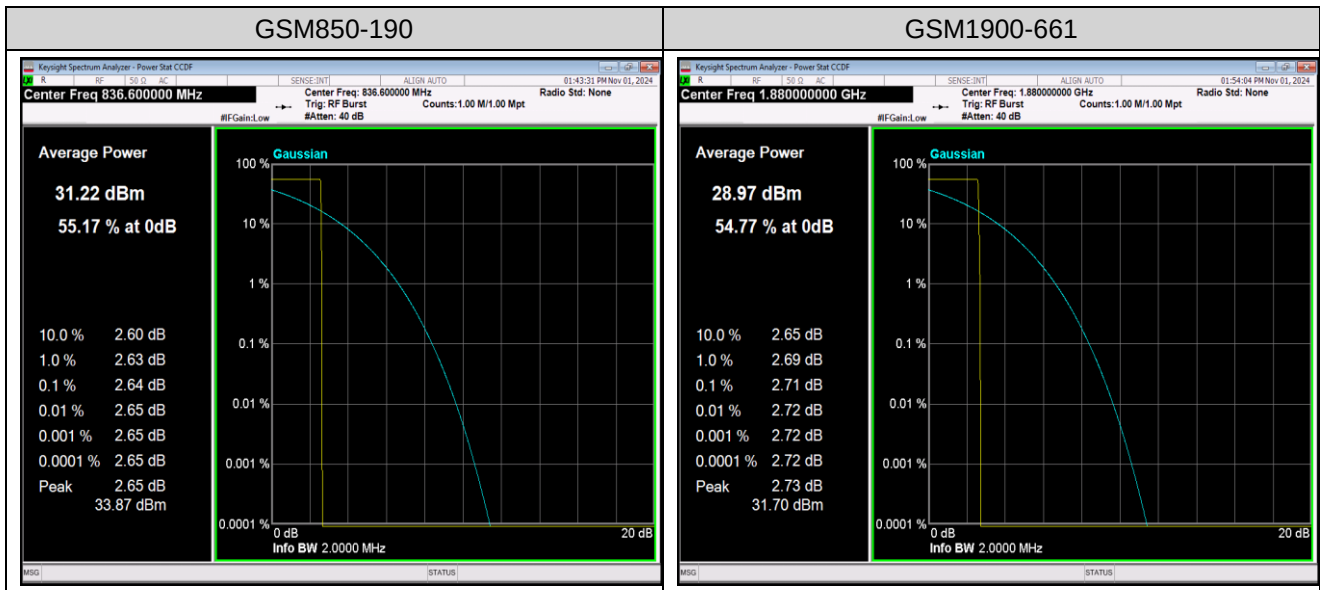
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.64	13	PASS
GSM1900	661	0	2.71	13	PASS

Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

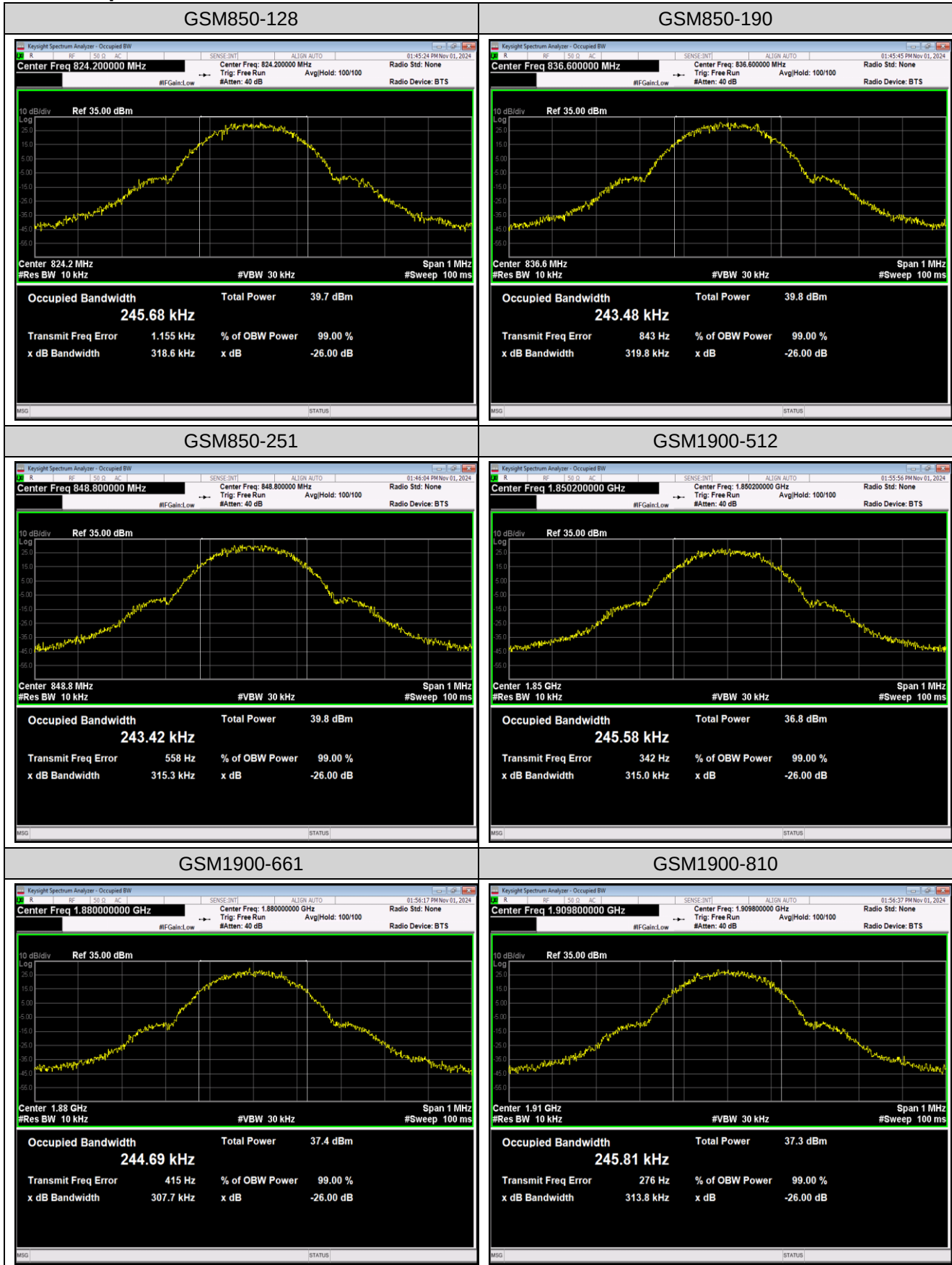


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24568	0.3186	---	PASS
GSM850	190	5	0.24348	0.3198	---	PASS
GSM850	251	5	0.24342	0.3153	---	PASS
GSM1900	512	0	0.24558	0.3150	---	PASS
GSM1900	661	0	0.24469	0.3077	---	PASS
GSM1900	810	0	0.24581	0.3138	---	PASS

Test Graphs

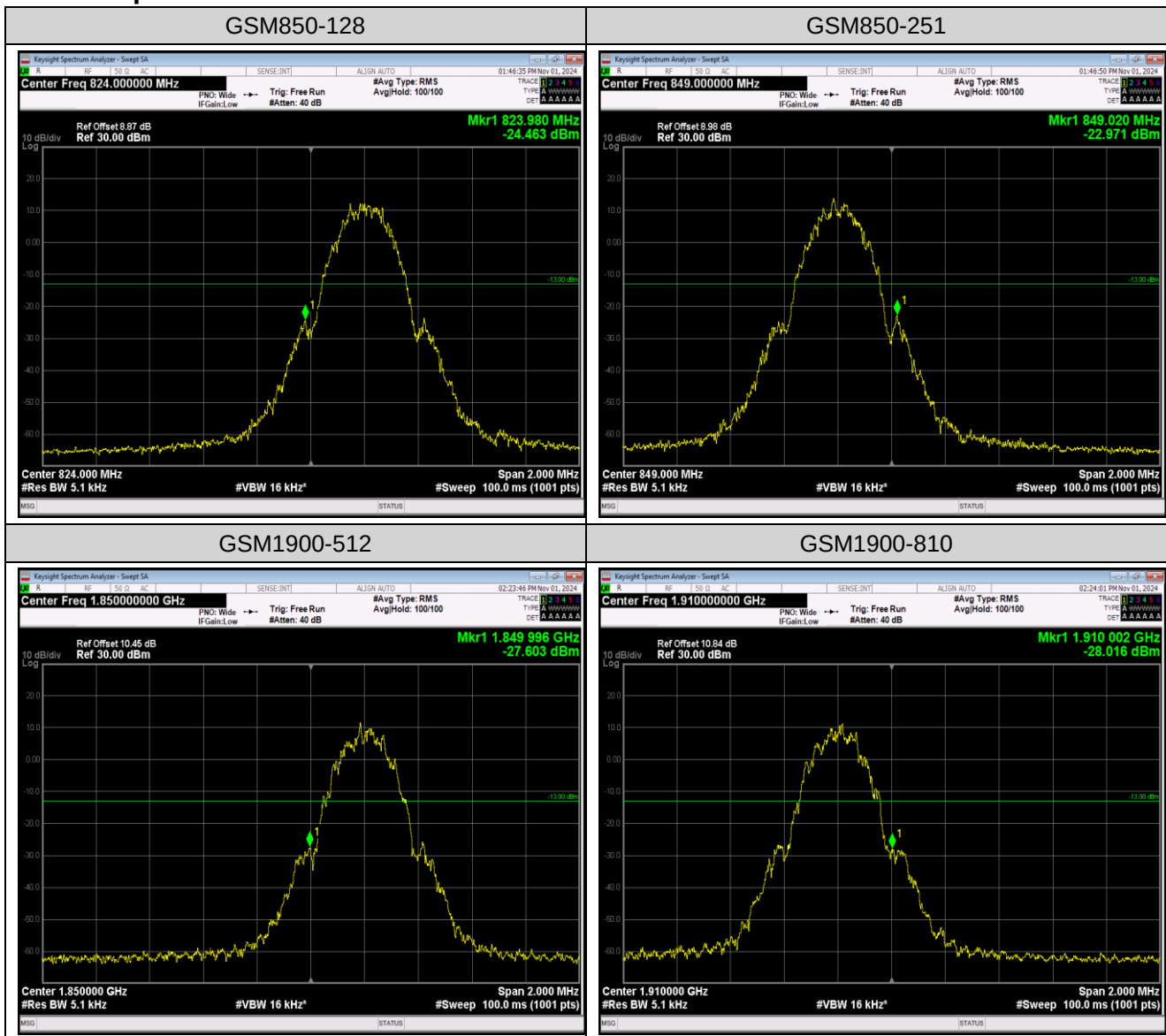


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.46	-13	PASS
GSM850	251	5	849.02	-22.97	-13	PASS
GSM1900	512	0	1850.00	-27.60	-13	PASS
GSM1900	810	0	1910.00	-28.02	-13	PASS

Test Graphs



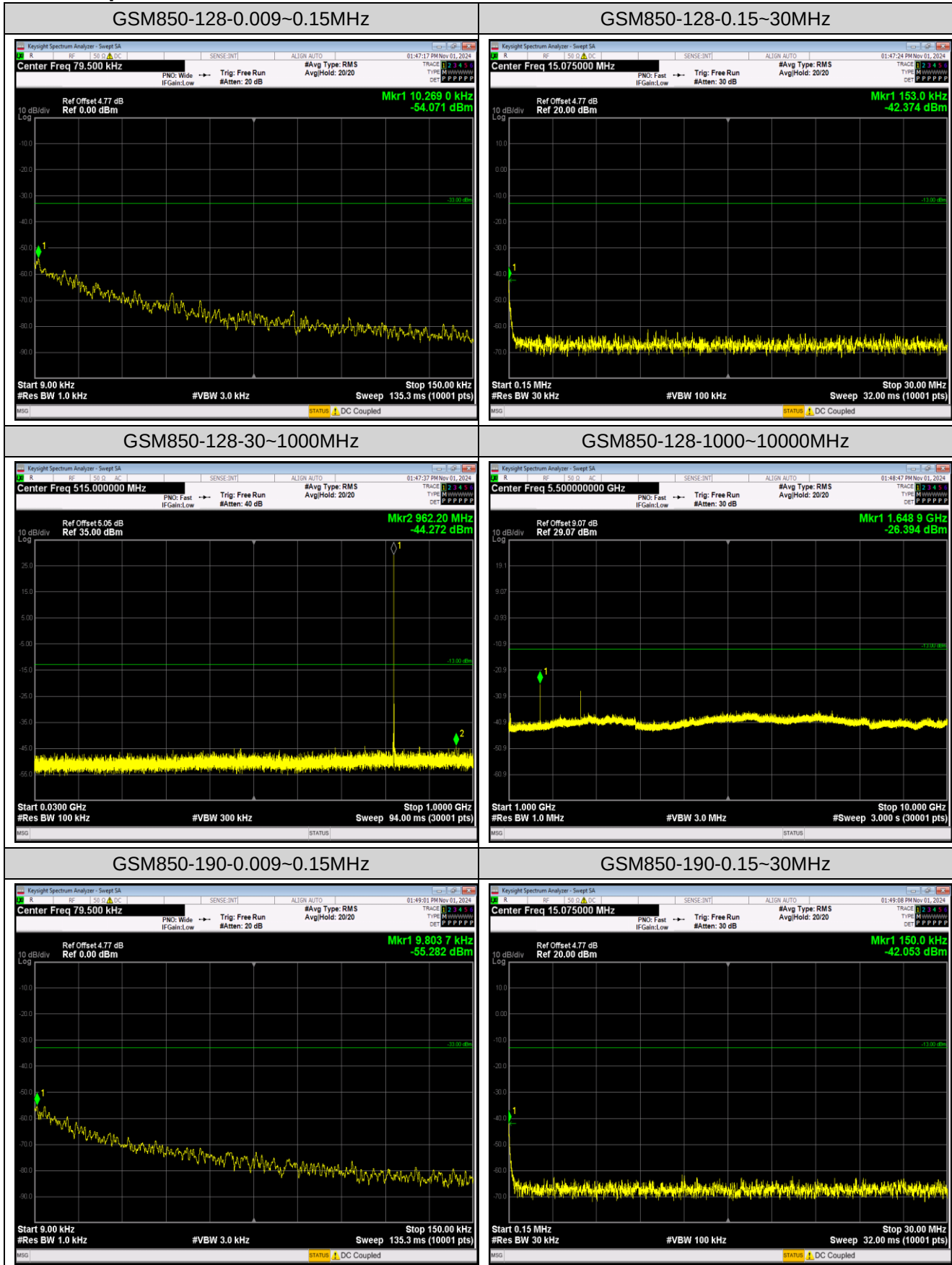
Appendix E: Conducted Spurious Emission

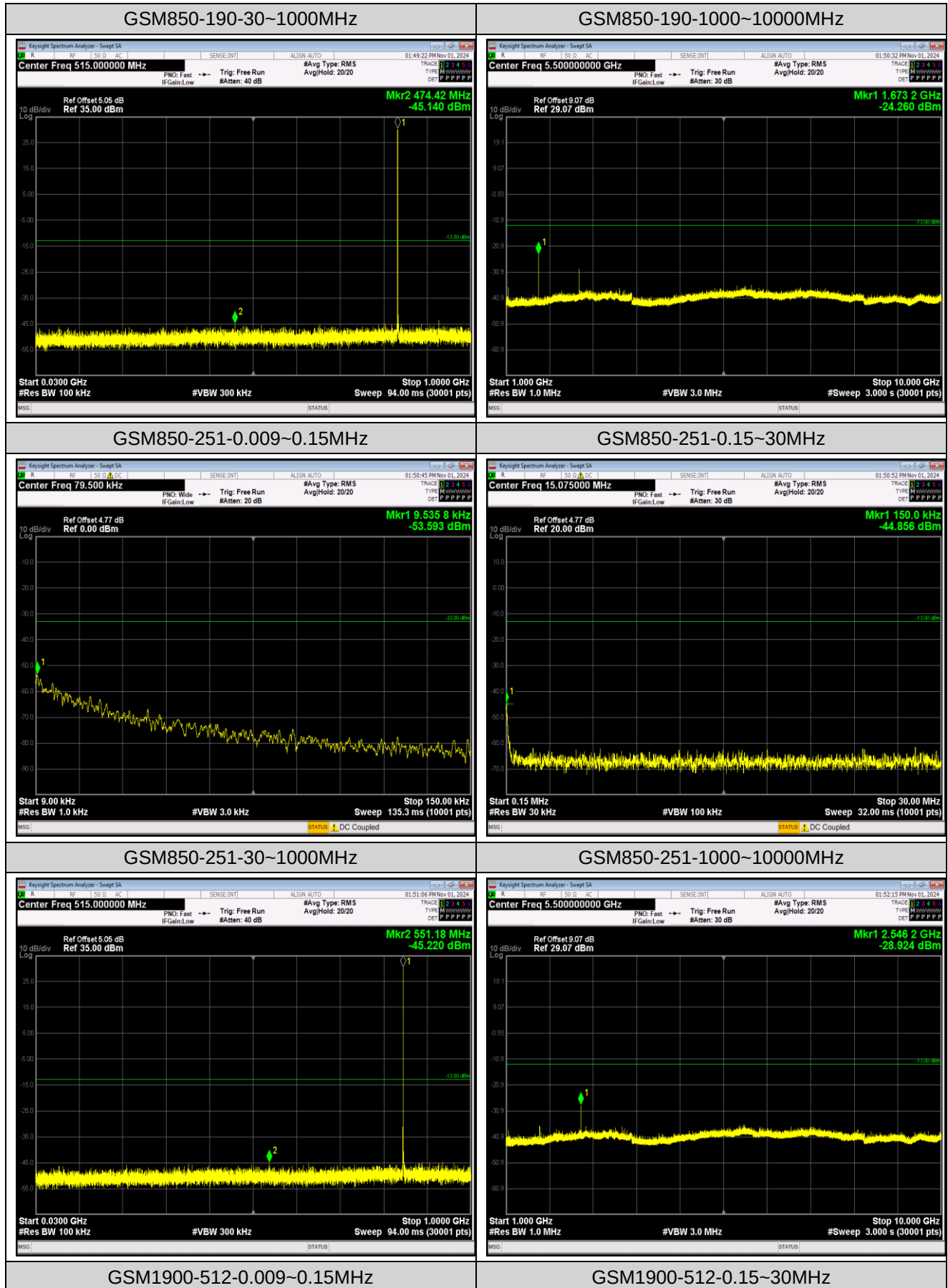
Test Result

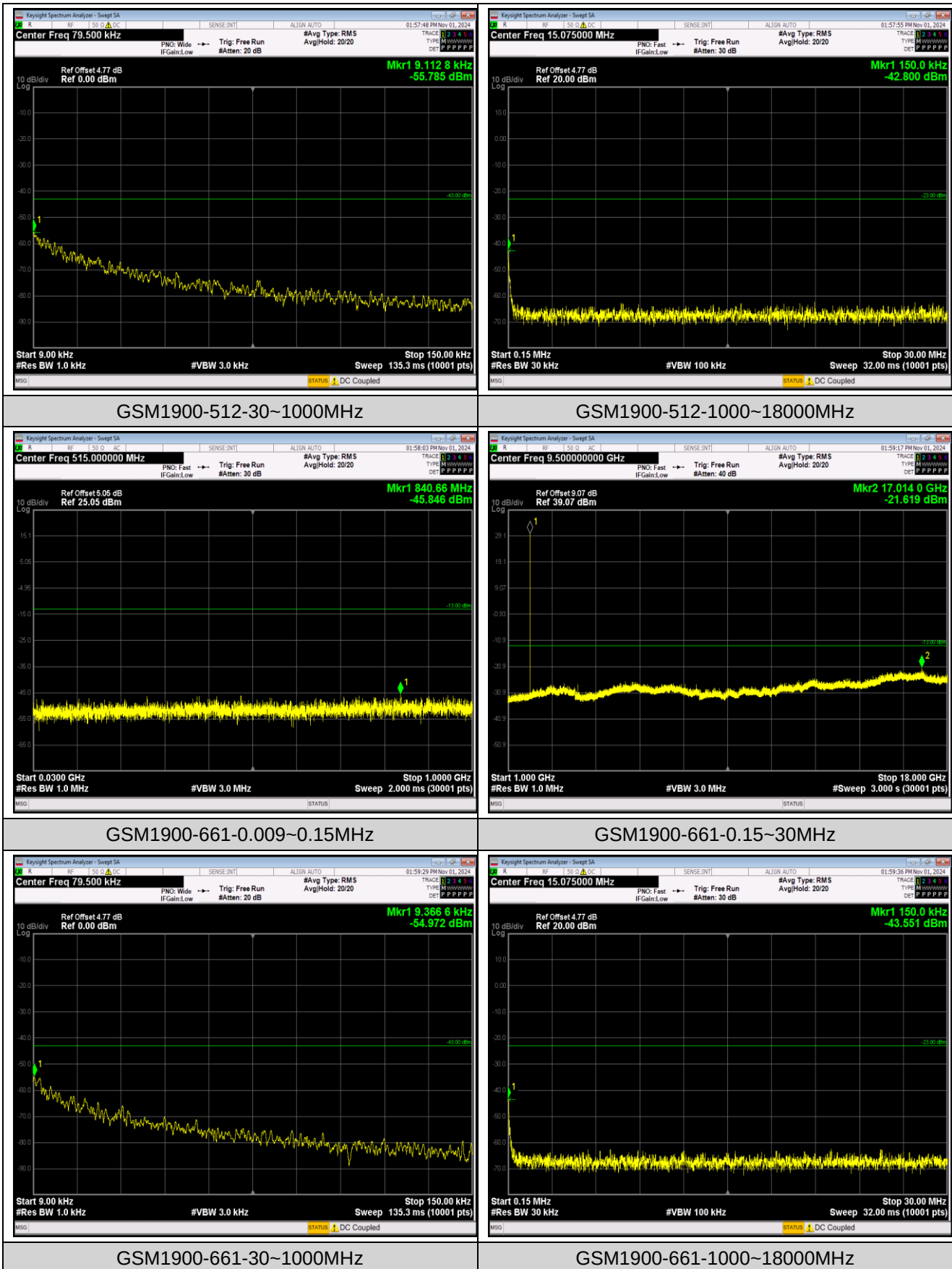
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.07	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-42.37	-13	PASS
GSM850	128	5	30~1000MHz	962.2	-44.27	-13	PASS
GSM850	128	5	1000~10000MHz	1648.9	-26.39	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.28	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.05	-13	PASS
GSM850	190	5	30~1000MHz	474.42	-45.14	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-24.26	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.59	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-44.86	-13	PASS
GSM850	251	5	30~1000MHz	551.18	-45.22	-13	PASS
GSM850	251	5	1000~10000MHz	2546.2	-28.92	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.79	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.8	-23	PASS
GSM1900	512	0	30~1000MHz	840.66	-45.85	-13	PASS
GSM1900	512	0	1000~18000MHz	17014	-21.62	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.97	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-43.55	-23	PASS
GSM1900	661	0	30~1000MHz	416.51	-41.75	-13	PASS
GSM1900	661	0	1000~18000MHz	16698.93	-21.86	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-57.35	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43.4	-23	PASS
GSM1900	810	0	30~1000MHz	817.28	-45.63	-13	PASS
GSM1900	810	0	1000~18000MHz	15954.33	-21.88	-13	PASS

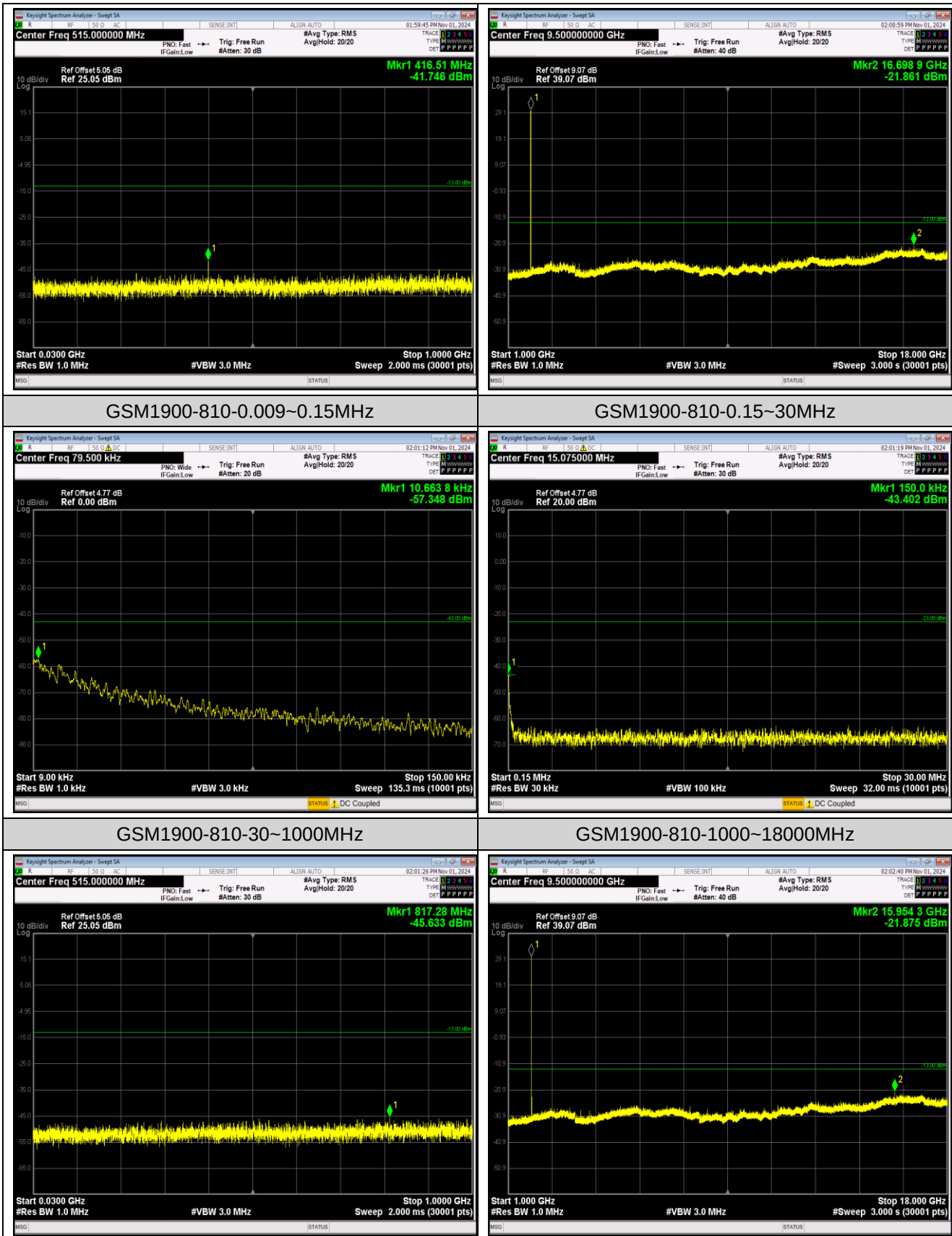
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-4.46	-0.005331	±2.5	Pass
	-20	8.04	0.009610		
	-10	-4.58	-0.005475		
	0	-4.75	-0.005678		
	10	-1.39	-0.001661		
	20	-8.59	-0.010268		
	30	-6.81	-0.008140		
	40	-2.84	-0.003395		
	50	-5.20	-0.006216		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-5.23	-0.006251	±2.5	Pass
	3.70	-3.81	-0.004554		
	4.20	-4.33	-0.005176		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: PCS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-8.36	-0.004447	Within authorized band for PCS 1900	Pass
	-20	-22.21	-0.011814		
	-10	-6.36	-0.003383		
	0	-26.05	-0.013856		
	10	20.37	0.010835		
	20	-9.43	-0.005016		
	30	-25.70	-0.013670		
	40	-36.68	-0.019511		
	50	-12.66	-0.006734		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-18.34	-0.009755	Within authorized band for PCS 1900	Pass
	3.70	-6.62	-0.003521		
	4.20	-7.04	-0.003745		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
GSM1900	661	PASS	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

